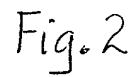
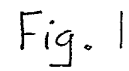


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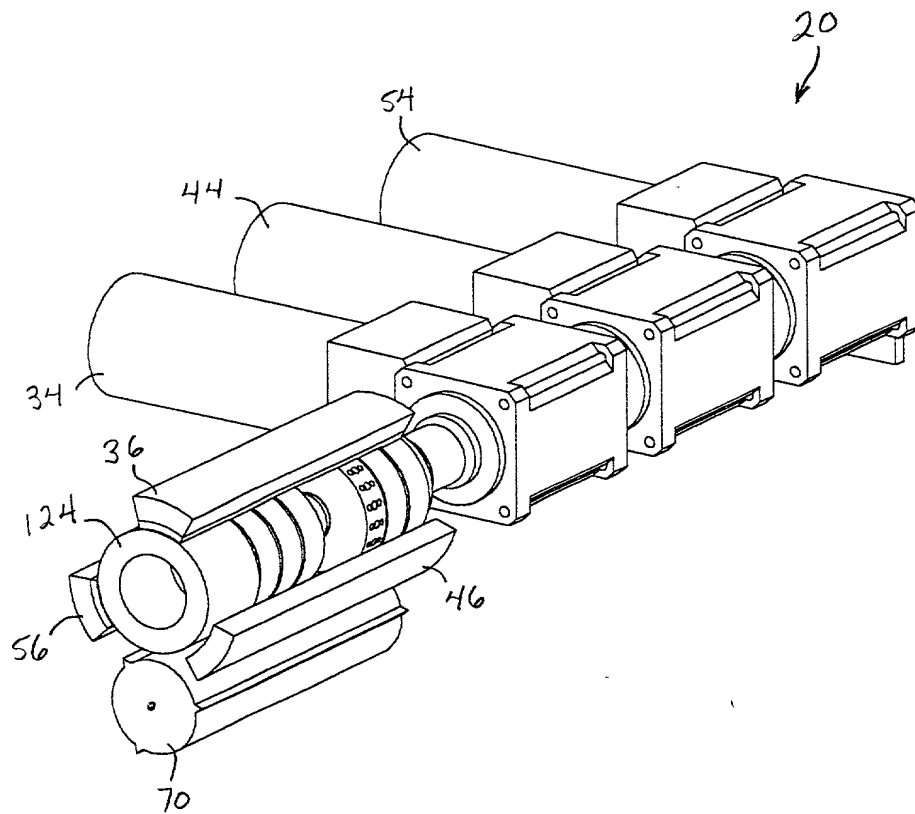
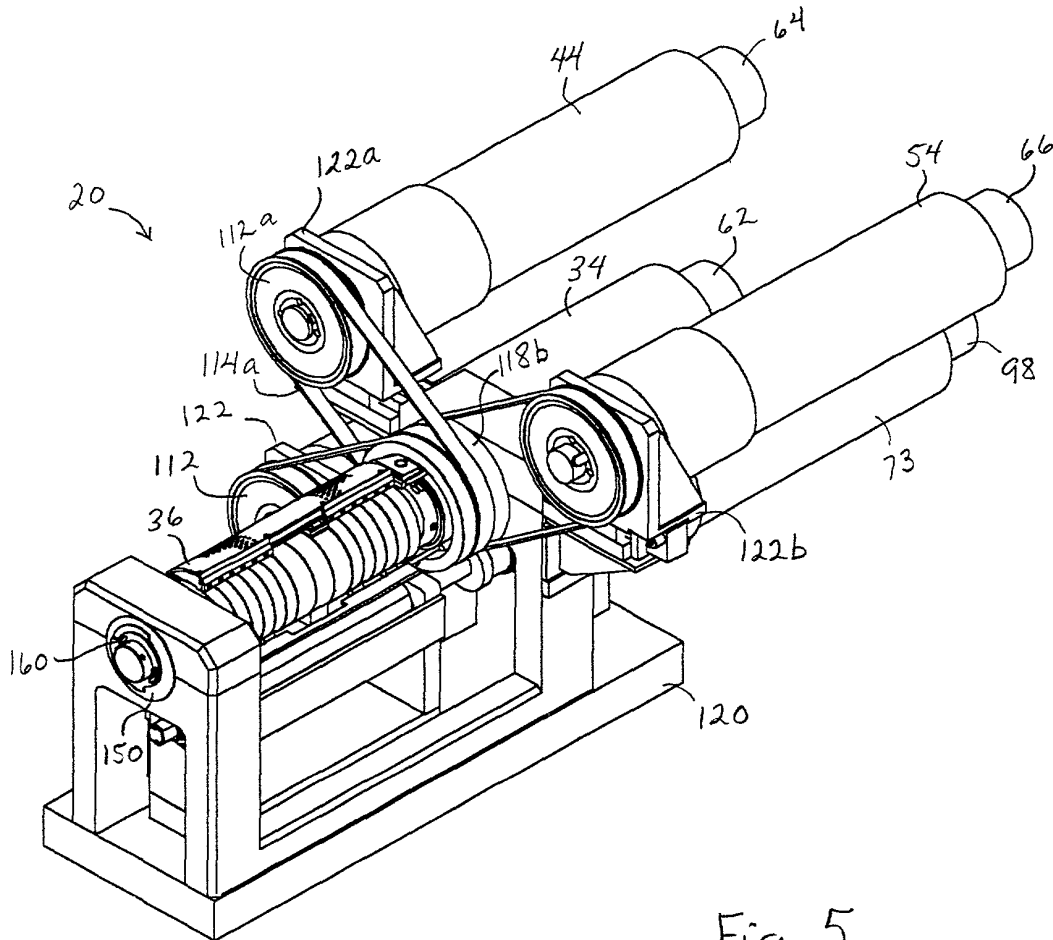


Fig. 3





10003911-110101

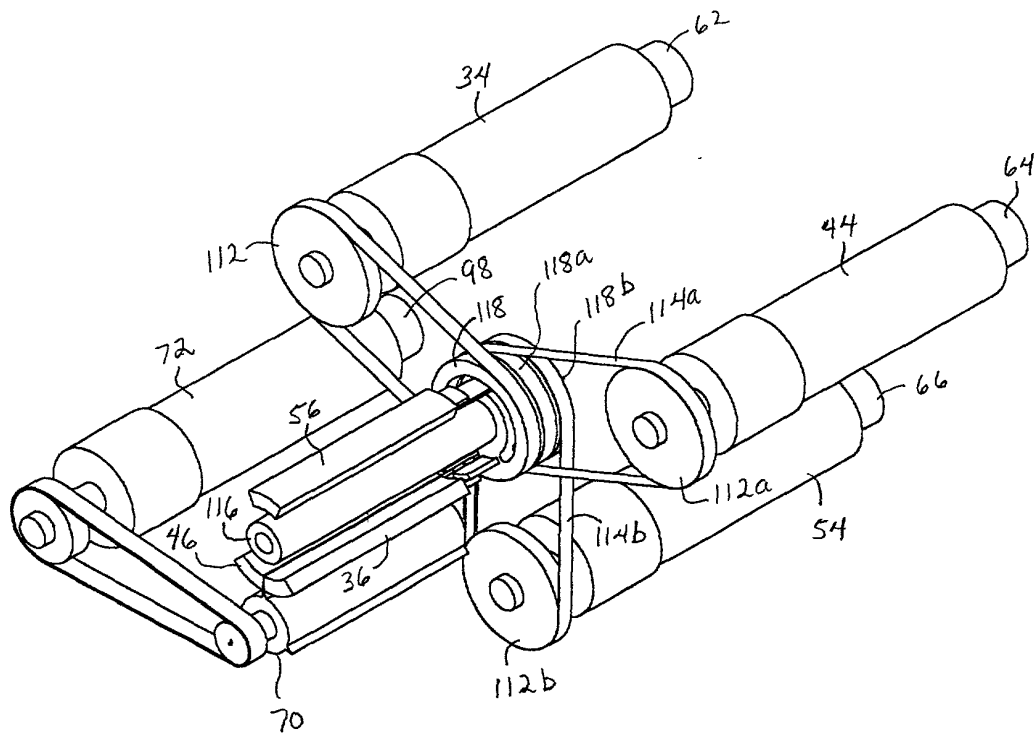
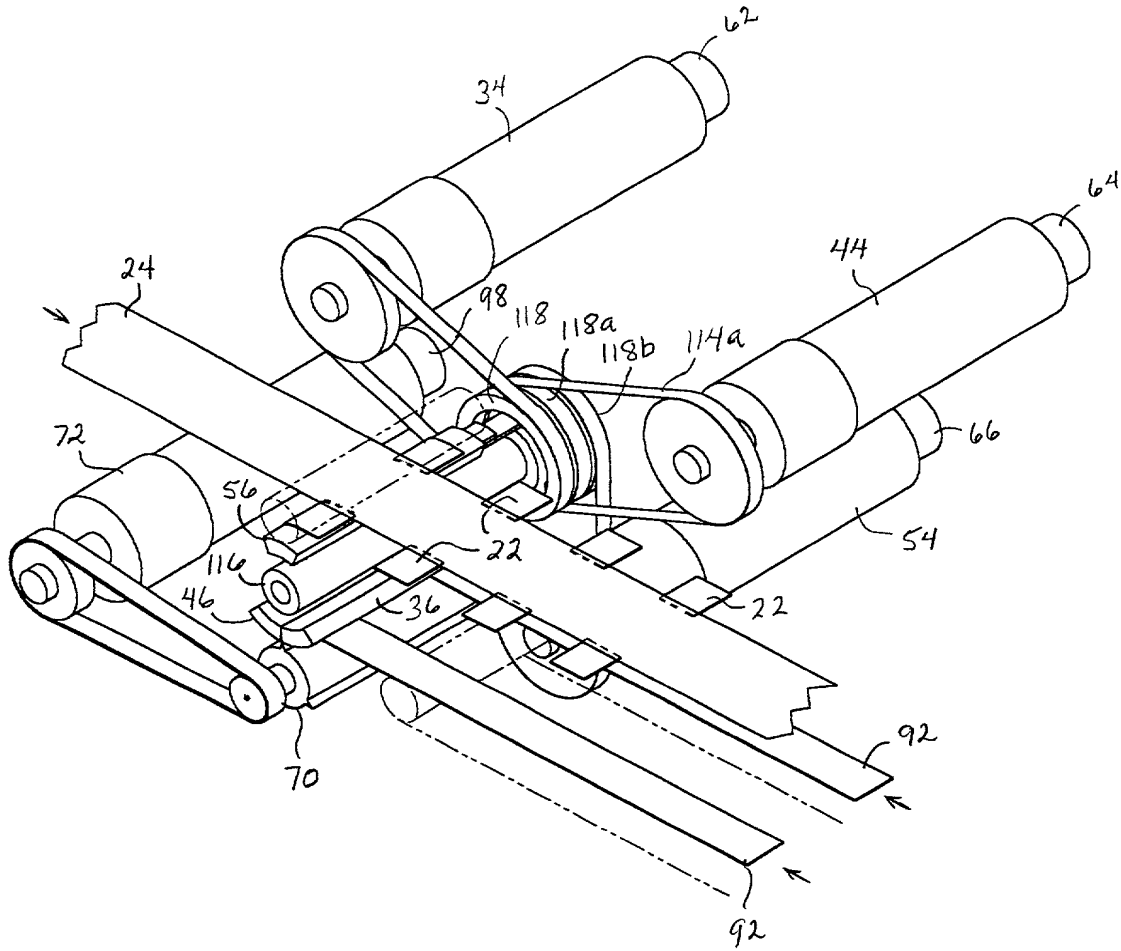


Fig. 6



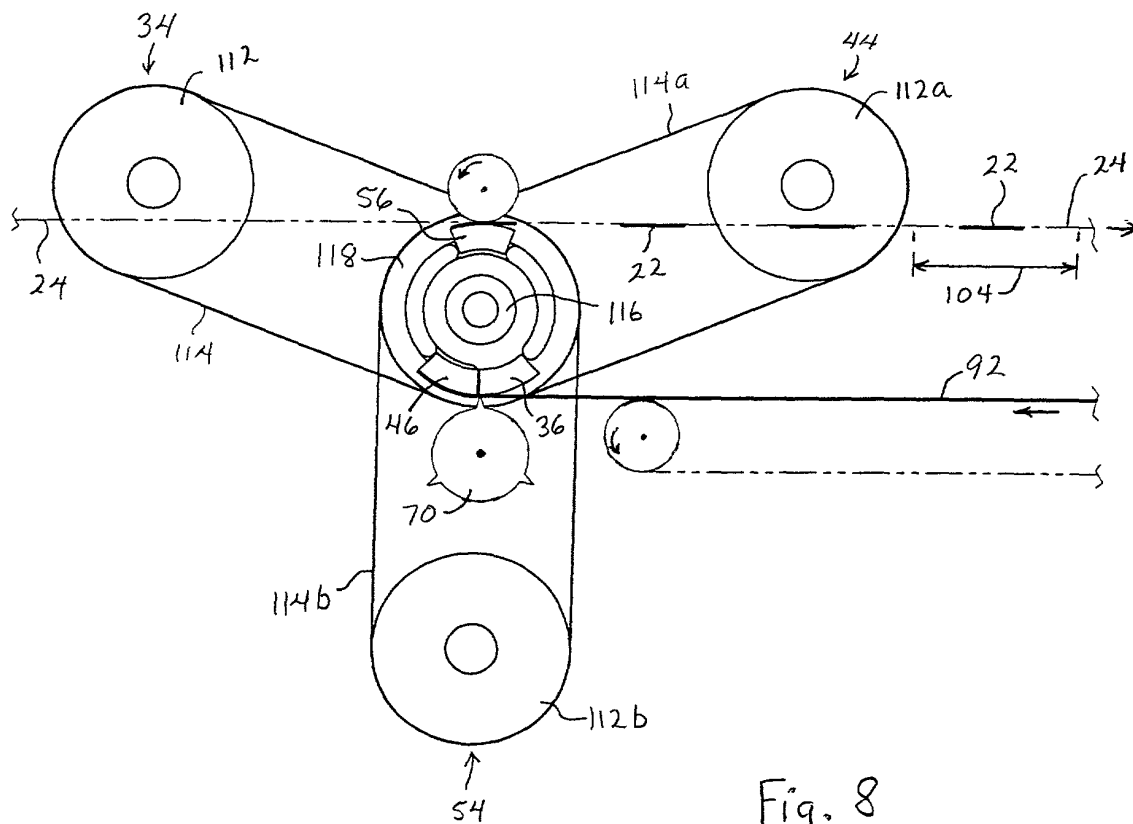
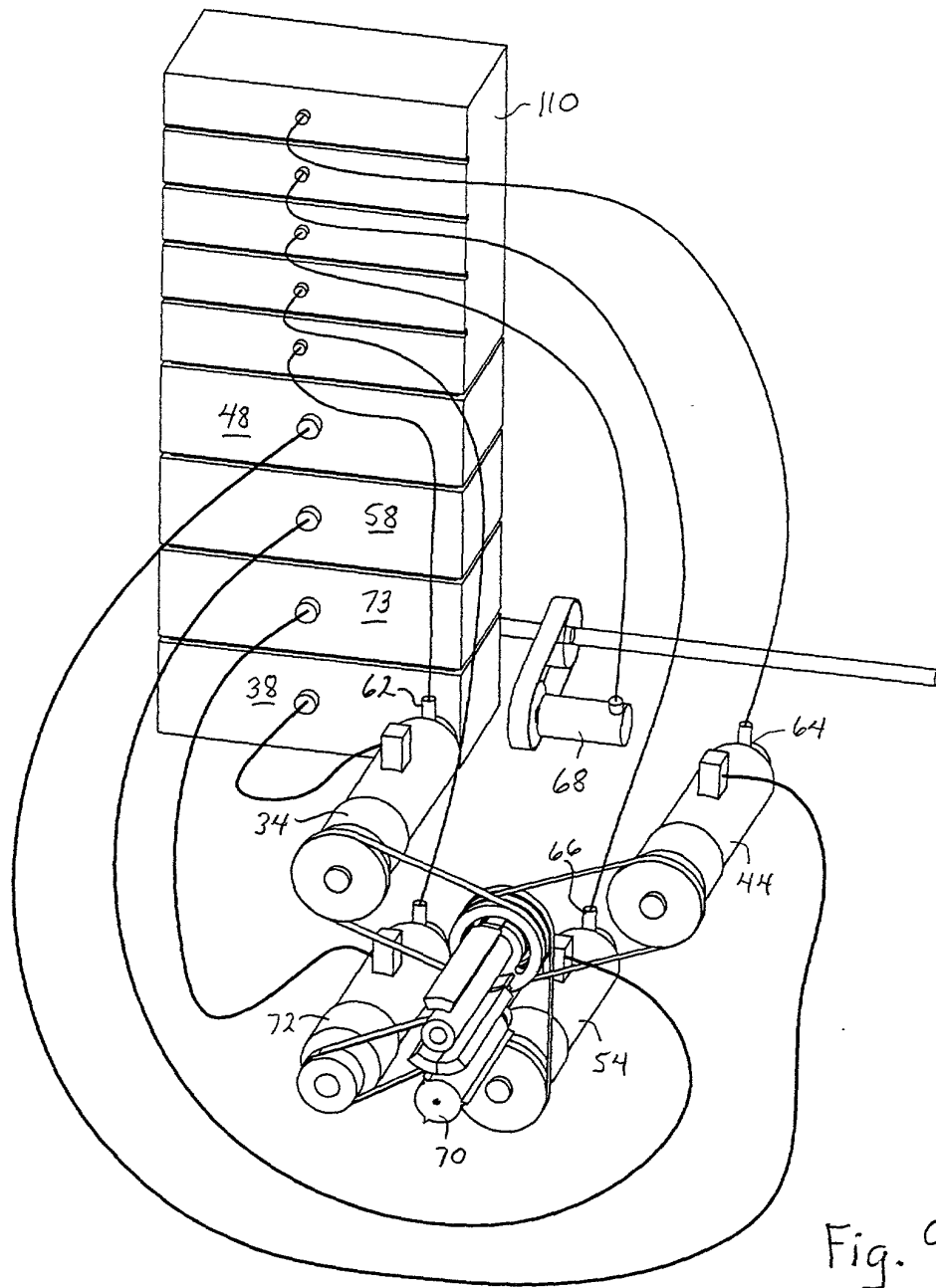


Fig. 8

10003631 110104



10003941 16206

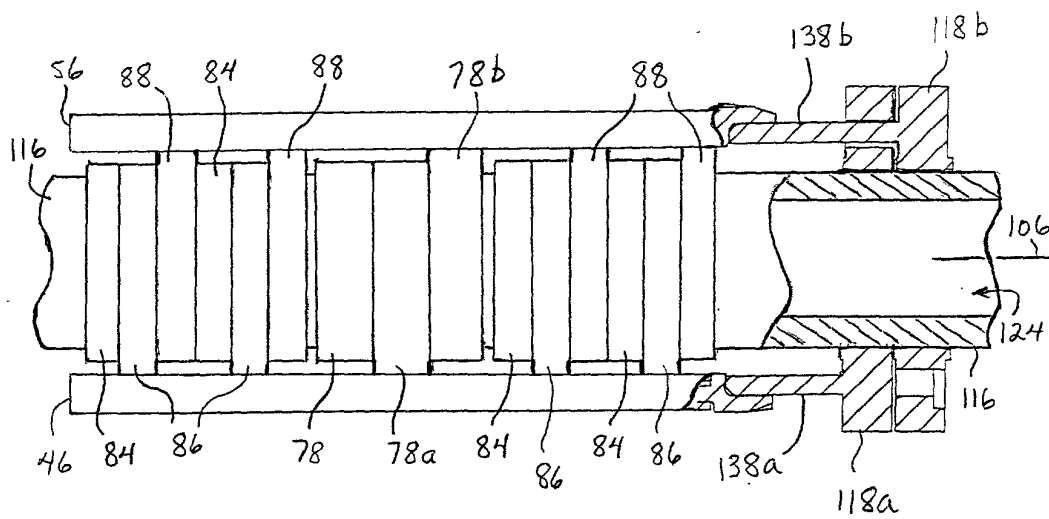


Fig. 10

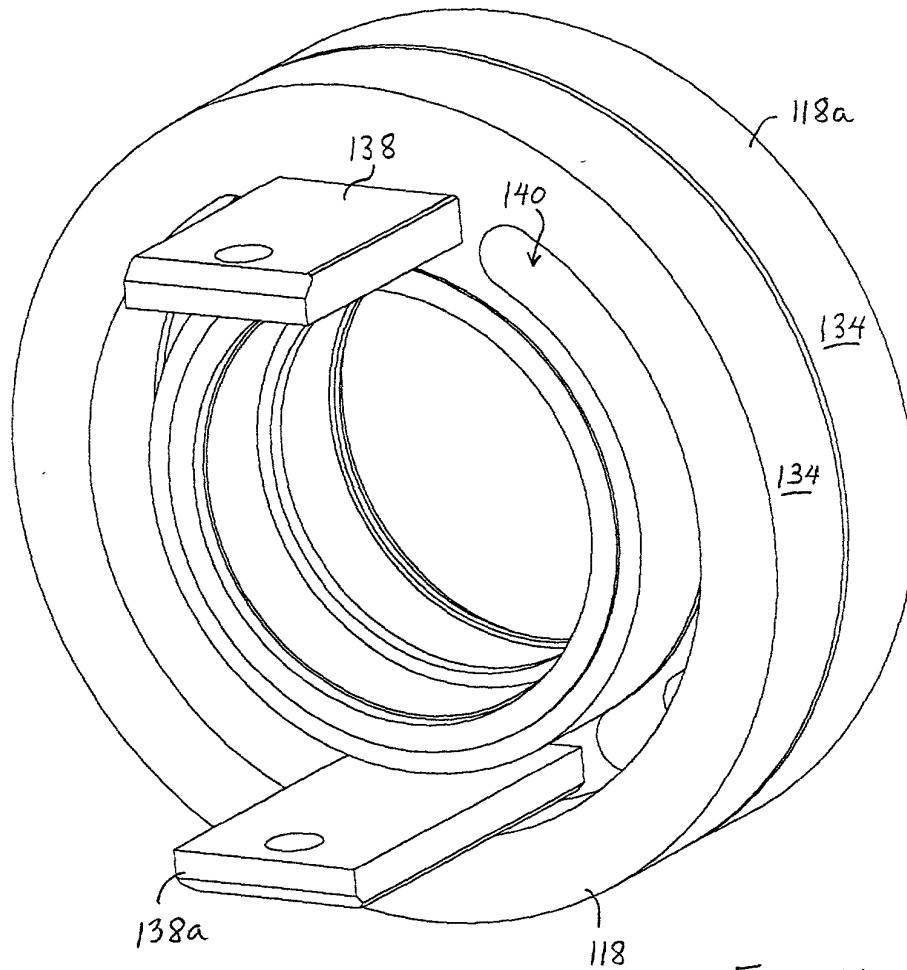


Fig. 11

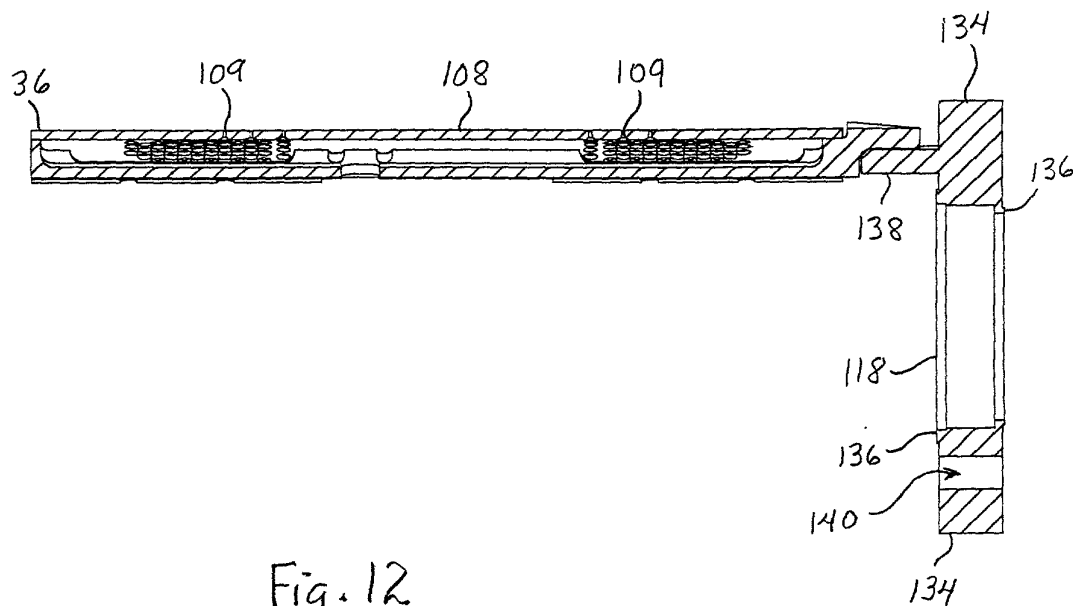


Fig. 12

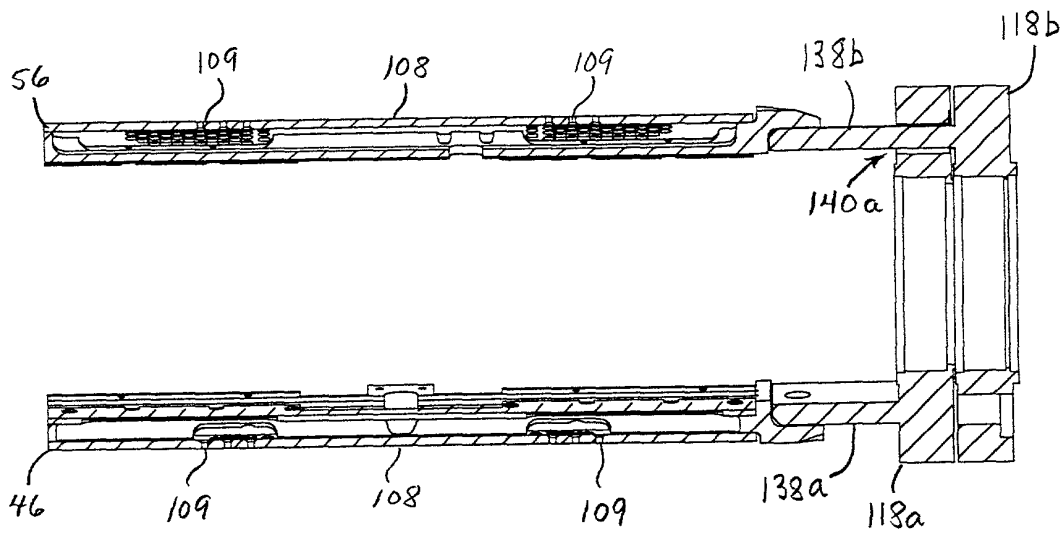


Fig. 13

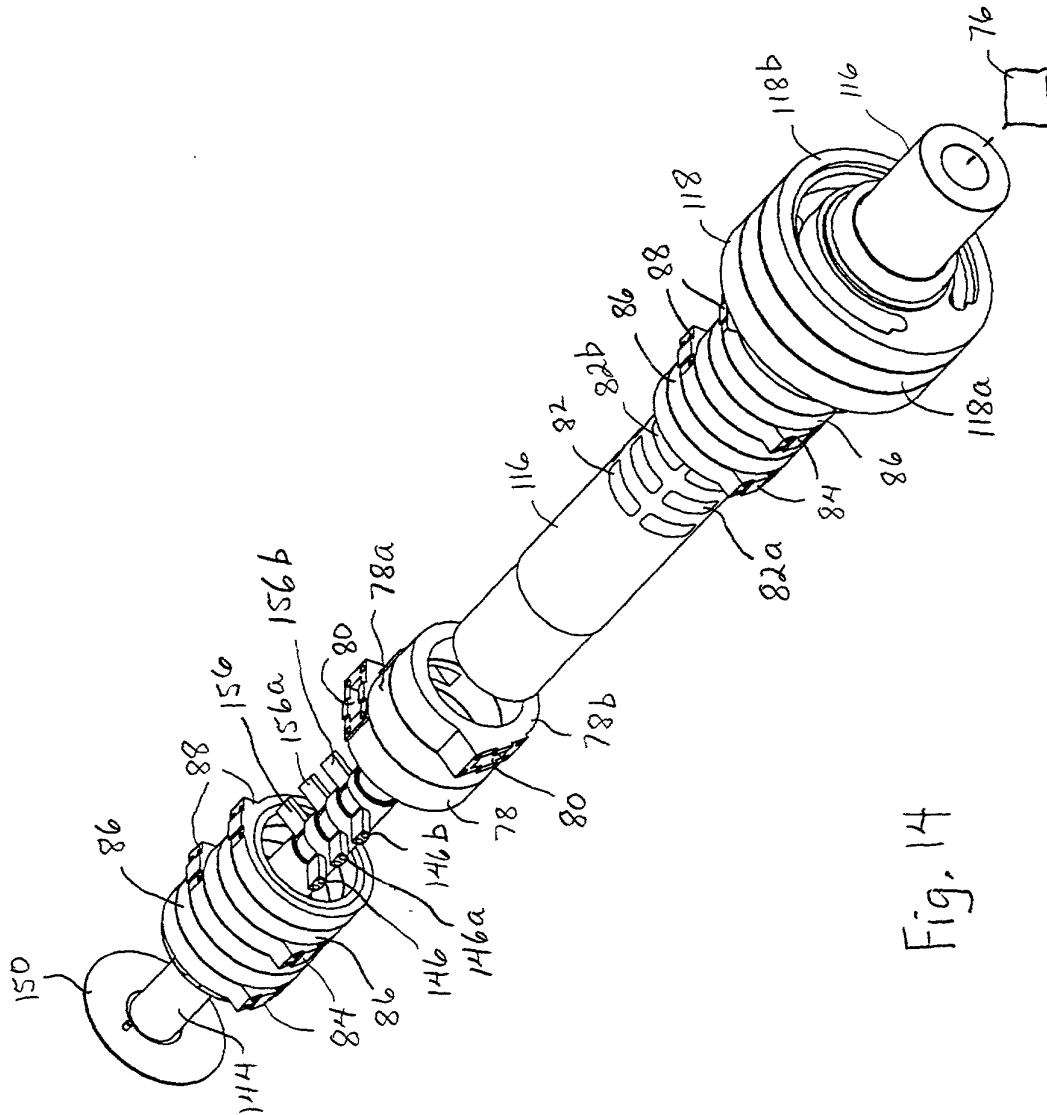


Fig. 14

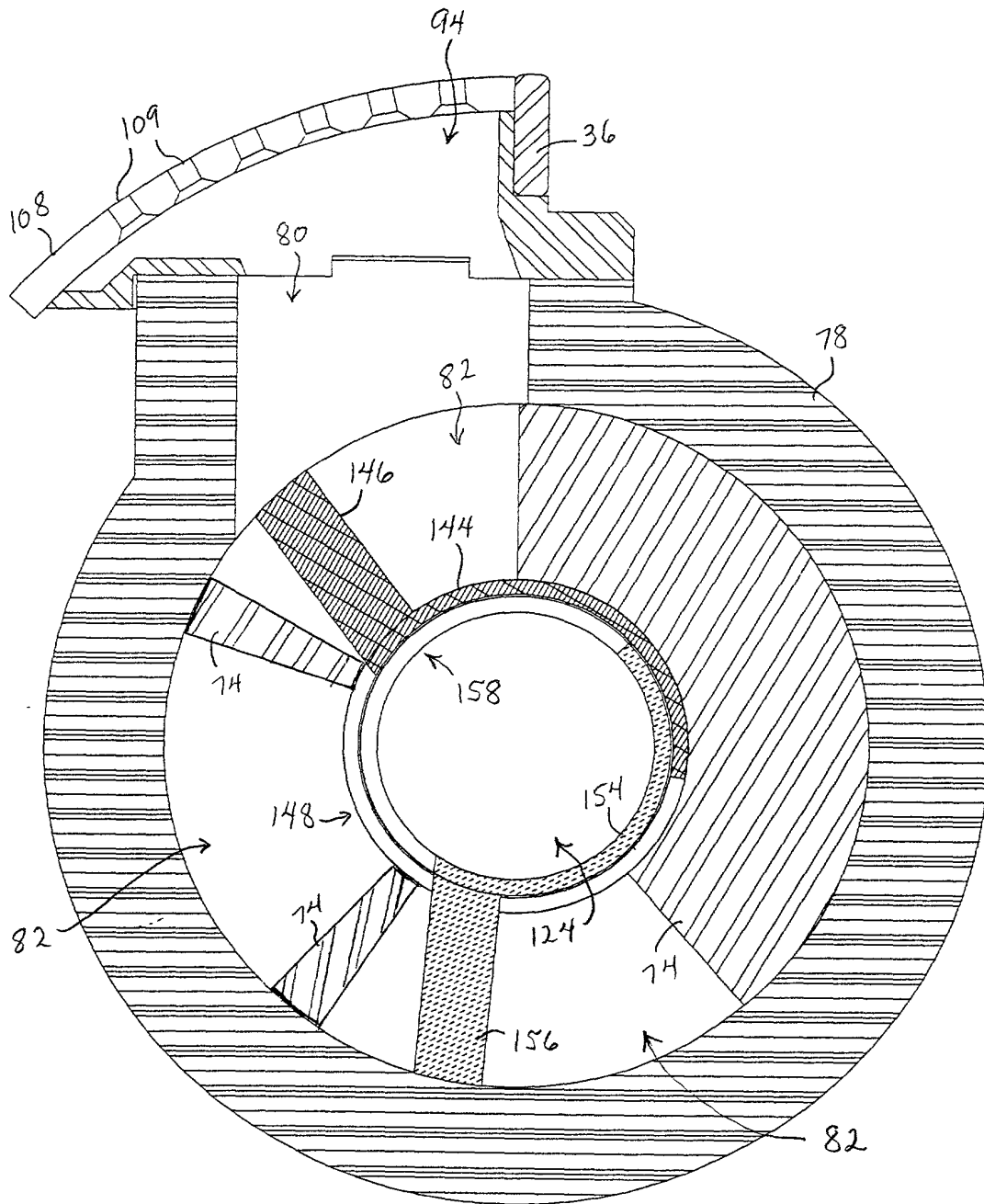


Fig. 15

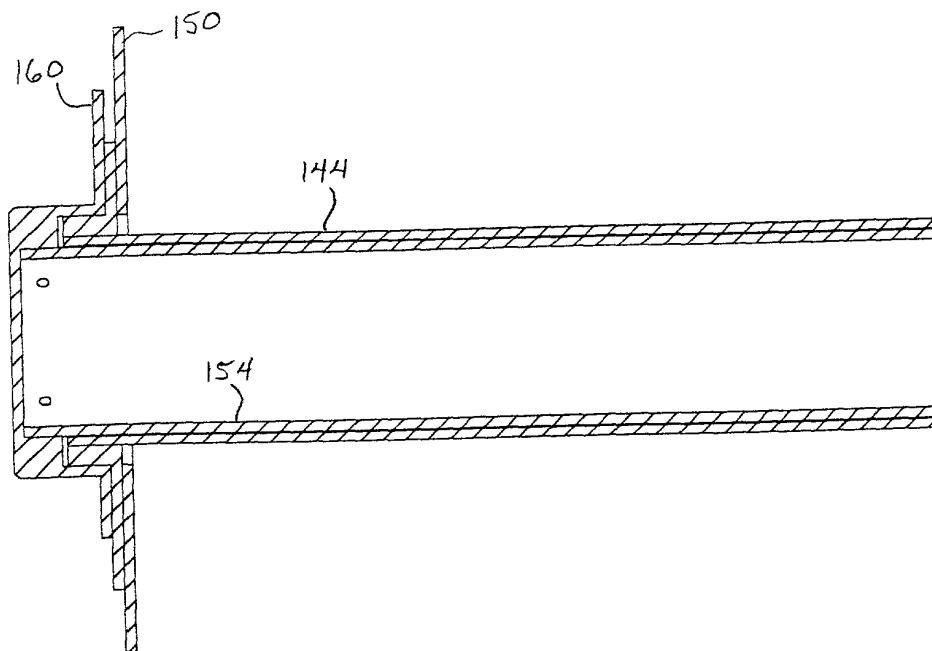


Fig. 16

1000941 110404

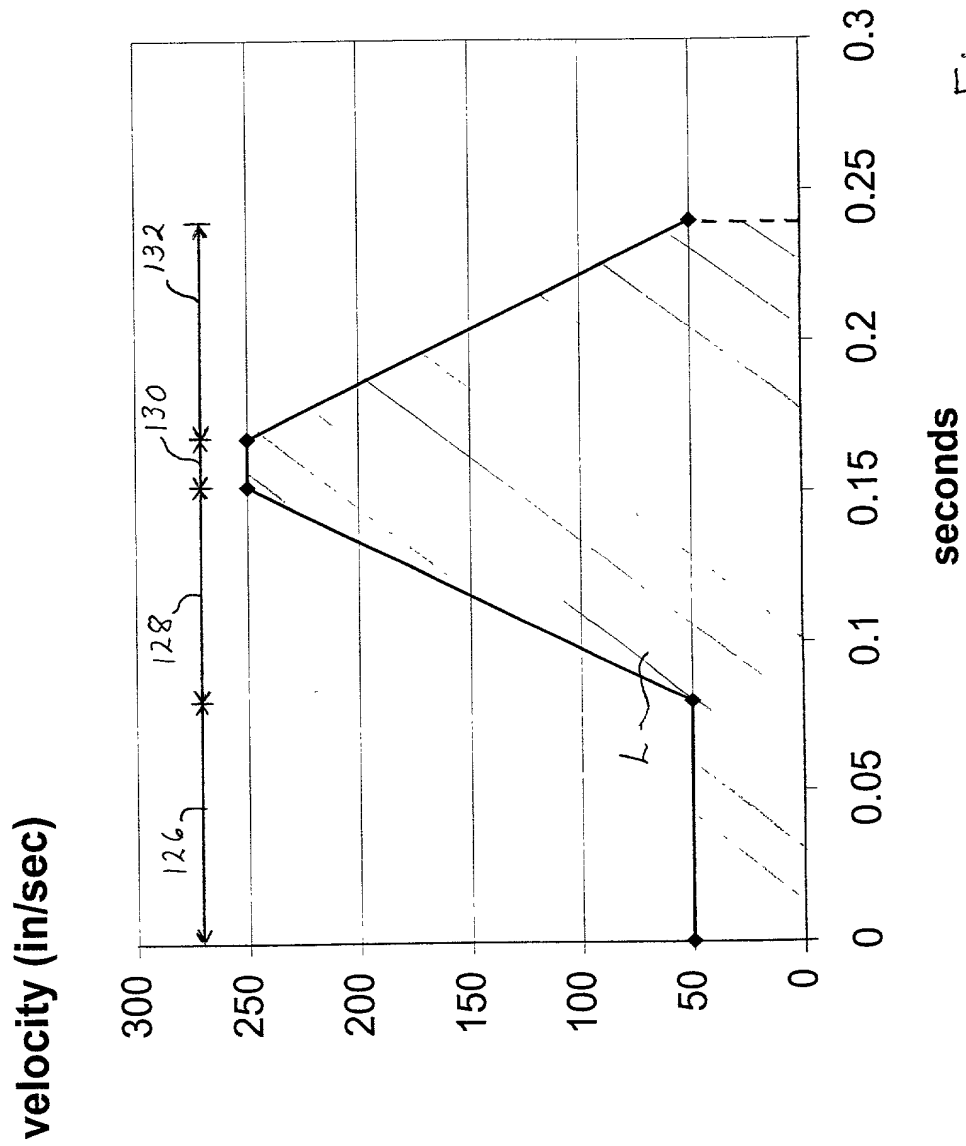


Fig. 17

Speed Profile Data

	Time (sec)	Velocity (in/sec)	
V1 start	0	50	
V1 end	0.08	50	
V2 start	0.152	250	
V2 end	0.168	250	
cycle end	0.24	50	

Fig. 17A

	Speed (inch/sec)	start time	end time	Interval (seconds)	Motion-area (inch)
Low-speed (V1)	50	0	0.08	0.08	4
Acceleration		0.08	0.152	0.072	10.8
High-speed (V2)	250	0.152	0.168	0.016	4
Deceleration		0.168	0.24	0.072	10.8
					29.6 total

Fig. 17 B

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velocity

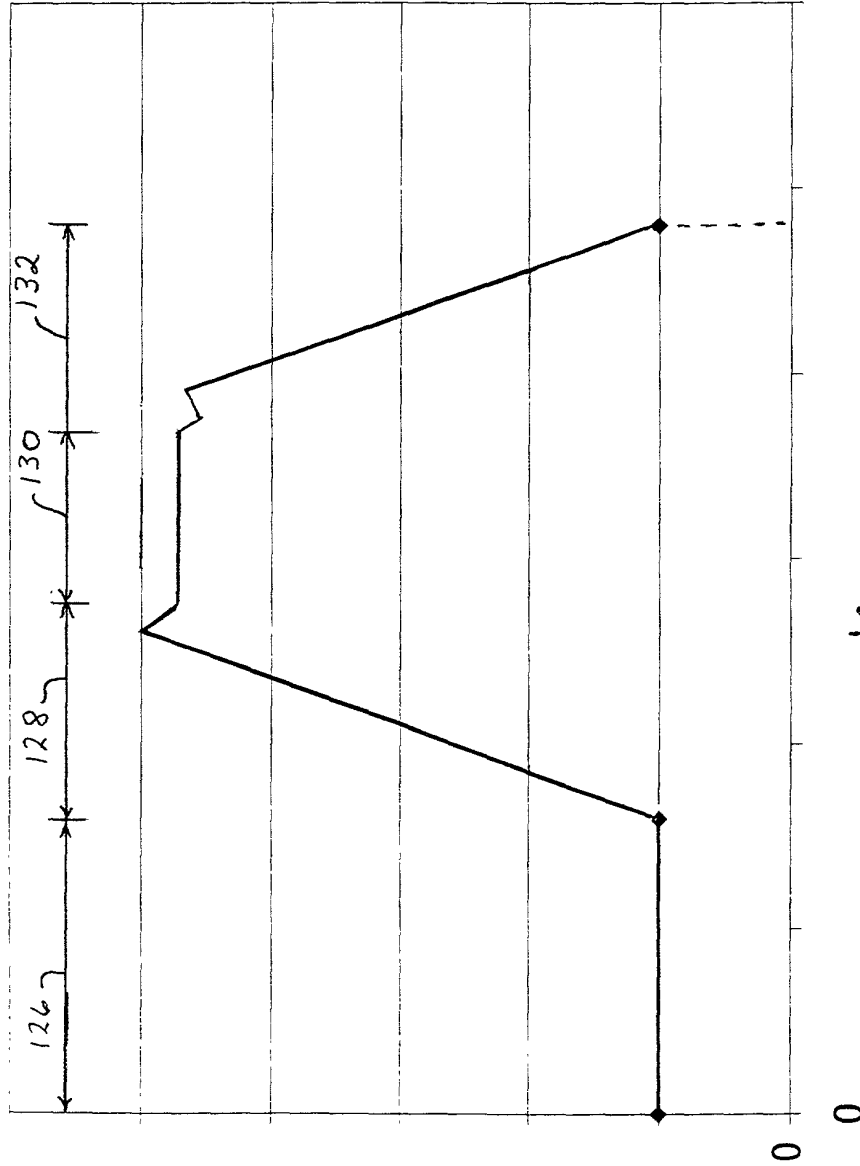


Fig. 18